

ABSTRACT OF THE DISCLOSURE

Equalizing method and apparatus for single carrier system having an improved equalization performance is disclosed, which includes: a section setting unit for setting filter taps having a predetermined section corresponding to the predicted multi-path; a repeat setting unit for setting filter taps of a repetition section by making the set predetermined section repetitive periodically; and a filter unit for filtering the multi-path by updating the coefficients of the filter taps of the set repetition section. The repeat setting unit sets the filter taps of the repetition section corresponding to an operation characteristic of the filter unit. Accordingly, the apparatus can improve equalization performance by setting filter taps corresponding to the predicted multi-path and updating only the set coefficients of the filter taps. Further, the apparatus can improve equalization performance in dynamic channel circumstances in which the multi-path changes.